Sabio STORAGE

CM1-Mini Wi Drive

Setup Guide • Ver 0.1

Please read the following safety information prior to using CM1.

- Only qualified personnel should service CM1. Faulty installation or service may invalidate any warranty applicable to CM1.
- CM1 can cause interference to pacemakers, hearing aids, and medical equipment. Keep safe distances from medical devices when operating in such environments.
- Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as CM1.
- Switch your CM1 off when in any area with a potentially explosive atmosphere, and obey all signs and instructions. Sparks can cause an explosion or fire resulting in bodily injury or even death.
- Do not drop or knock CM1. Rough handling can damage the electronics board and hard drive in CM1.
- Do not expose CM1 to extreme temperature. Do not put CM1 on heating devices such as microwave oven, stove, or radiator.
- Clean CM1 surface with soft damp cloth. Do not use any cleaning agent.
- Keep CM1 dry. Any precipitation, humidity, and liquids can corrode, or short electronic circuits in CM1.

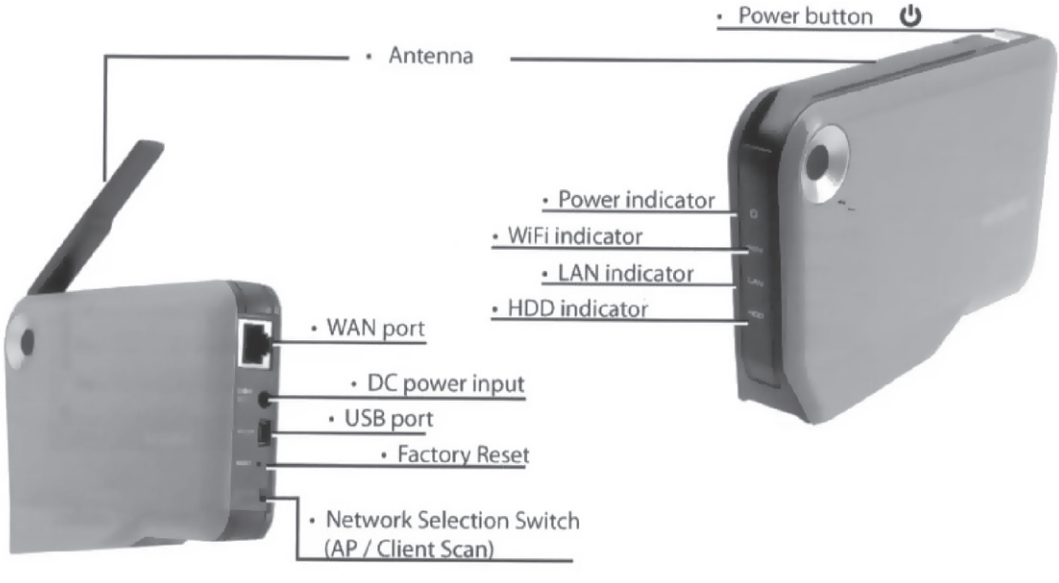
Sabio is not liable for loss of data. Sabio strongly recommends that users not rely on any single device to protect their data. Sabio recommends that users save critical files on multiple devices in multiple locations to be assured of recoverability.

Thank you for purchasing Sabio's CM1 Mini WiDrive.

Included items:

- **USB Cable :** This is a "Y" cable to allow you to connect the CM1 directly to your computer, without the need of any additional devices.
- **System CD:** Install on a PC to discover the IP address of the CM1 on the network. This disc also includes a copy of this manual and the full users manual.
- **Ethernet Cable:** This cable allows you to connect the CM1 to a Router.
- **Power Supply:** To provide power to the CM1 when used as a NAS or a Personal Cloud device.

Introduction to the CM1



1. Use the provided power adapter and Ethernet cable and connect to the unit and a router (figure - 01).

figure-01

2. Make certain the switch located on the back of the CM1 is set to “AP”.

figure-02

3. Touch the power button to turn the unit on.

4. The front panel indicators will light up, with the top two red and the bottom two green. As the unit comes online you will notice the top two indicators flashing, and occasionally the bottom indicator as well. The CM1 is ready to use when all the indicators are green, with the LAN indicator flickering occasionally.

Locate the CD that came with your CM1 and insert the disc into the optical drive of your Windows computer. Since the device is set up and controlled via a web-browser interface, the following instructions will also apply to the use of a CMQ on an Apple MAC computer. A discussion of how to locate the CM1 using a MAC is included in the user's manual.

5. Follow instructions on each screen and click through: the License agreement, customer information, setup, ready to install and finish screens. Click on the "finish" button

6. Run the "CM1 Utility" by clicking on "Start" and then click the "CM1 Utility" icon in the start menu. The screen below appears. Click on the "Search CM1" button in order to locate your CM1 on your network. *(figure-03)*

NOTE: In order for the CM1 to be discover able on your network, both the CM1 and the computer you are running the CM1 Utility on must be on the same network.

The CM1 Utility will search the network for all CM1's connected to the local area network (LAN) and display them in the small box on the right. It should look something like this *(figure-04).*

figure-03

figure-04

Make sure the CM1 is highlighted, and then click on the “Login” button. You will be prompted for the ID and Password *(figure-05)*.

Leave the default ID of “admin” in place, and type the factory set password of “admin” (without the quotes) and then click on the “Login” button.

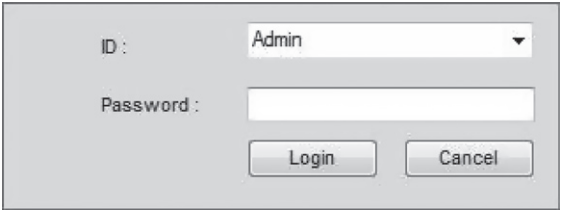


figure-05

The buttons on the bottom half of the CM1 Utility page will then become active. Click on the “Web Page” button.

Click on the “System Setting” icon *(figure-06)*. The screen showing the system status is displayed first.

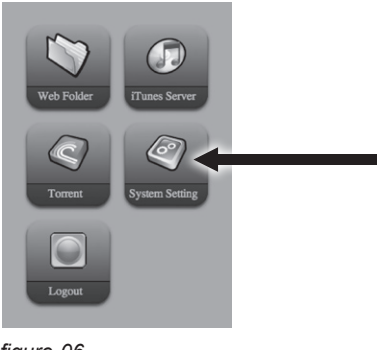


figure-06

Click on the “Maintenance” option on the left hand side *(figure-07)*. The “Maintenance” screen will appear. Click on the “Format” button at the bottom of the page. This will format the hard disk drive built into the CM1

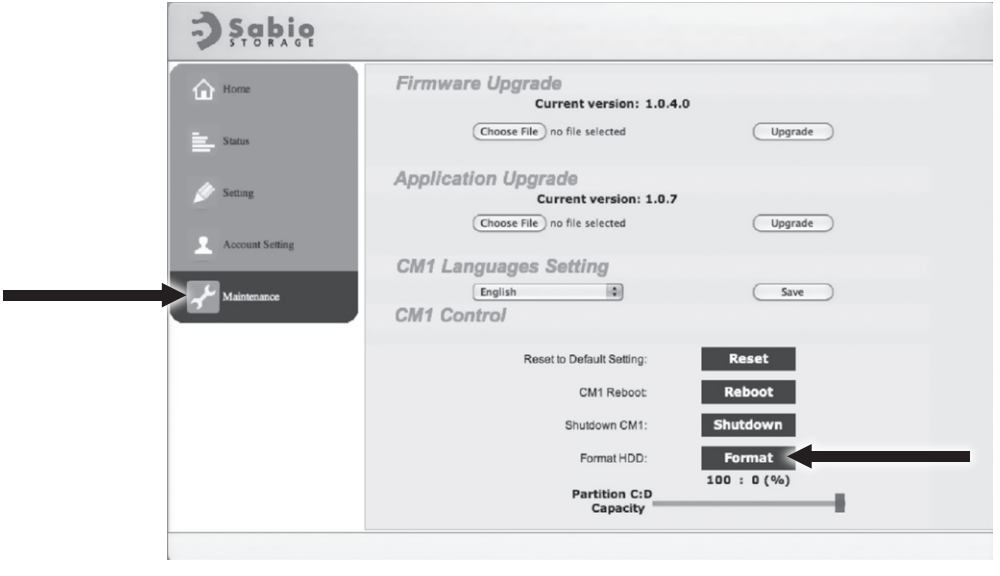

Sabio
STORAGE
Home
Status
Setting
Account Setting
Maintenance
Firmware Upgrade
Current version: 1.0.4.0
Choose File
no file selected
Upgrade
Application Upgrade
Current version: 1.0.7
Choose File
no file selected
Upgrade
CM1 Languages Setting
English
Save
CM1 Control
Reset to Default Setting:
Reset
CM1 Reboot:
Reboot
Shutdown CM1:
Shutdown
Format HDD:
Format
100 : 0 (%)
Partition C:D
Capacity

figure-07

A warning message will appear telling you that any unsaved data will be lost, but since the disk is blank, this message is just cautionary. Click on “OK”. The disk format page will be displayed with messages concerning the progress of the format process.

When the formatting process is completed, you will be returned to the “Maintenance” page. Click on the “Status” option on the left side, and you will see the “Status” page and the “Application Status” should list all applications as “ON” *(figure-08)*.

Your CM1 is now ready to accept files and be used as a wired network attached storage device (NAS). Now that the CM1’s disk is prepared, you can move on to configuration of the device as a networked attached storage unit.

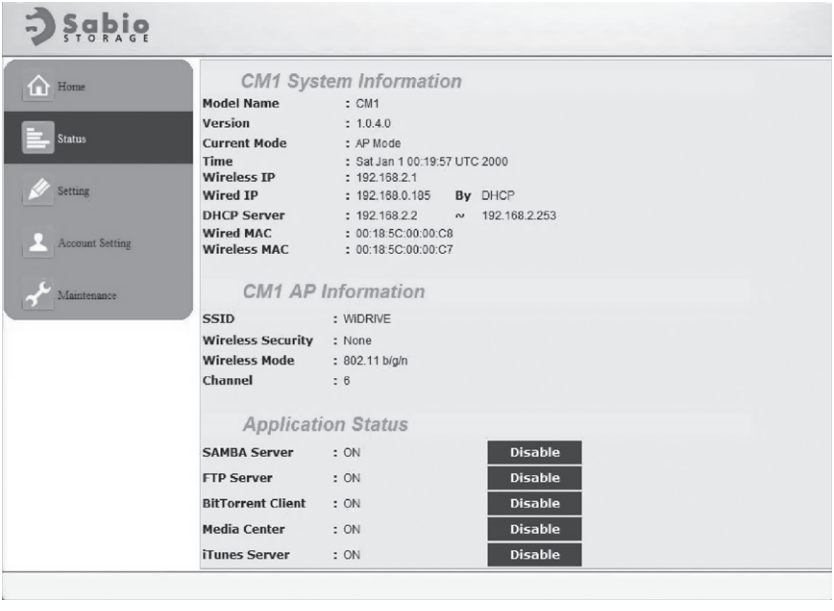

Sabio
STORAGE
Home
Status
Setting
Account Setting
Maintenance
CM1 System Information
Model Name : CM1
Version : 1.0.4.0
Current Mode : AP Mode
Time : Sat Jan 1 00:19:57 UTC 2000
Wireless IP : 192.168.2.1
Wired IP : 192.168.0.185 By DHCP
DHCP Server : 192.168.2.2 ~ 192.168.2.253
Wired MAC : 00:18:5C:00:00:C8
Wireless MAC : 00:18:5C:00:00:C7
CM1 AP Information
SSID : WiDRIVE
Wireless Security : None
Wireless Mode : 802.11 b/g/n
Channel : 6
Application Status
SAMBA Server : ON Disable
FTP Server : ON Disable
BitTorrent Client : ON Disable
Media Center : ON Disable
iTunes Server : ON Disable

figure-08

CM1 can be configured as a wireless networked drive:

Use this mode if you want the main network connection to be the wireless interface. You will still need to leave the CM1 plugged into your network using an Ethernet cable for the setup phase of the configuration.

1. Turn the CM1 off, change the “network se lection switch” located on the back of the CM1 to “Client Scan” *(figure-09)*.

2. Extend the antenna at this time, and power the unit back on at this time *(figure-10)*.

You will need to run the CM1 Discovery utility again to find the CM1 on the network, and log into the CM1 as previously explained. Click on the “System Setting” icon *(figure-11)*. The screen showing the system status is displayed first.

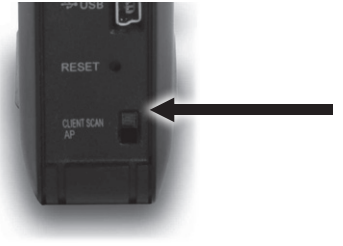


figure-09

figure-10

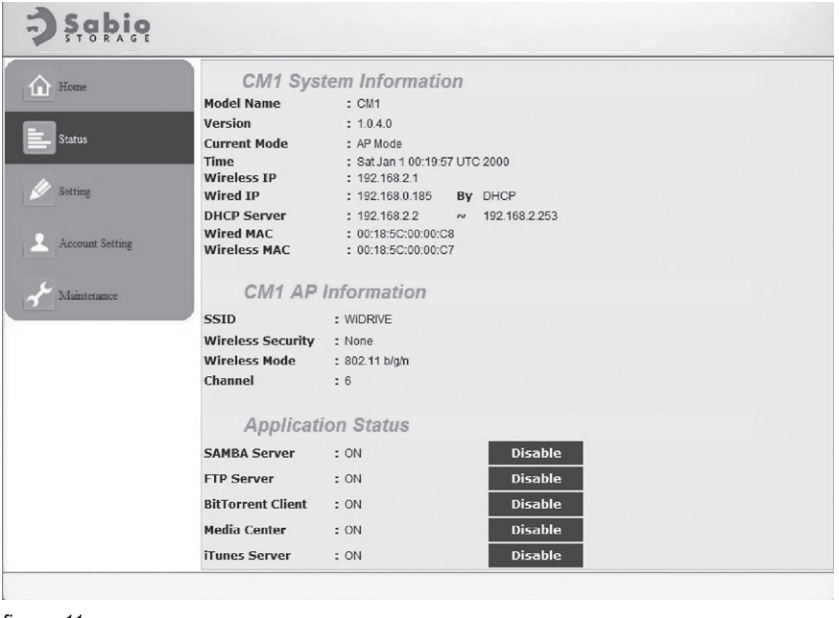

Sabio
STORAGE
Home
Status
Setting
Account Setting
Maintenance
CM1 System Information
Model Name : CM1
Version : 1.0.4.0
Current Mode : AP Mode
Time : Sat Jan 1 00:19:57 UTC 2000
Wireless IP : 192.168.2.1
Wired IP : 192.168.0.185 By DHCP
DHCP Server : 192.168.2.2 ~ 192.168.2.253
Wired MAC : 00:18:5C:00:00:C8
Wireless MAC : 00:18:5C:00:00:C7
CM1 AP Information
SSID : WIDRIVE
Wireless Security : None
Wireless Mode : 802.11 b/g/n
Channel : 6
Application Status
SAMBA Server : ON Disable
FTP Server : ON Disable
BitTorrent Client : ON Disable
Media Center : ON Disable
iTunes Server : ON Disable

figure-11

a. Click on the “Setting” option on the left side *(figure-11)*.

b. Click on the “Client Scan Mode” photo below the wording. The screen in *figure-12* will ap pear.

c. You will see a list of wireless access points listed under the “Step 1” section of the screen. If your wireless router or access point is not listed, just click the “Refresh” link on the page to have the CM1 rescan the wireless signals at your location *(figure-13)*.

d. **NOTE: Initially the signal strength will be high as the CM1 will be sitting next to the router. If after configuration of the CM1 you decide to move it to a different location, the wireless signal of the router or AP will change, and if it is below 50 the performance of the CM1 may be poor or unacceptable.**

You may want to reposition the CM1, the antenna on the CM1, your router, or both, to see if you can get a better signal. If you cannot get the numbers to be close to 100, you may want to use the CM1 in a wired configuration to ensure optimal perfor-mance.

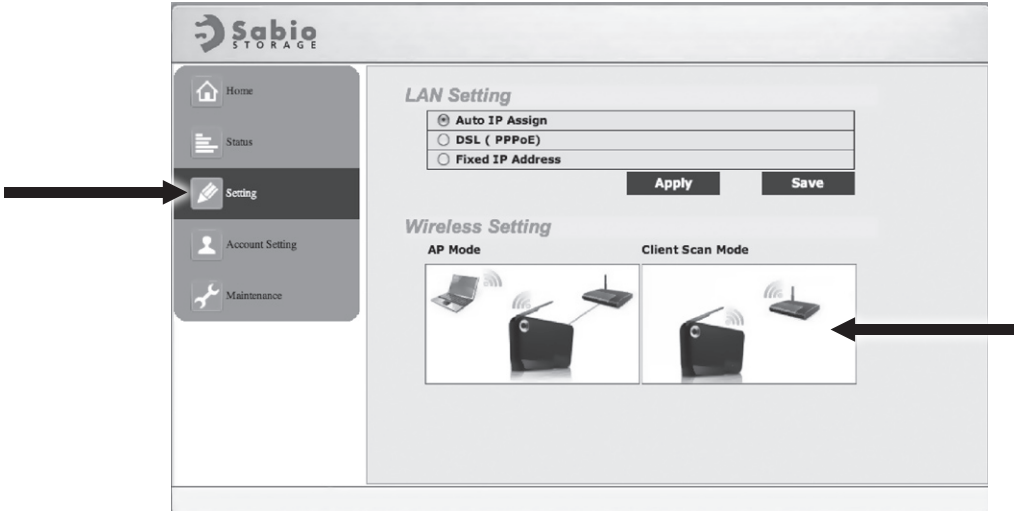

Sabio
STORAGE
Home
Status
Setting
Account Setting
Maintenance
LAN Setting
Auto IP Assign
DSL (PPPoE)
Fixed IP Address
Apply
Save
Wireless Setting
AP Mode
Client Scan Mode

figure-12

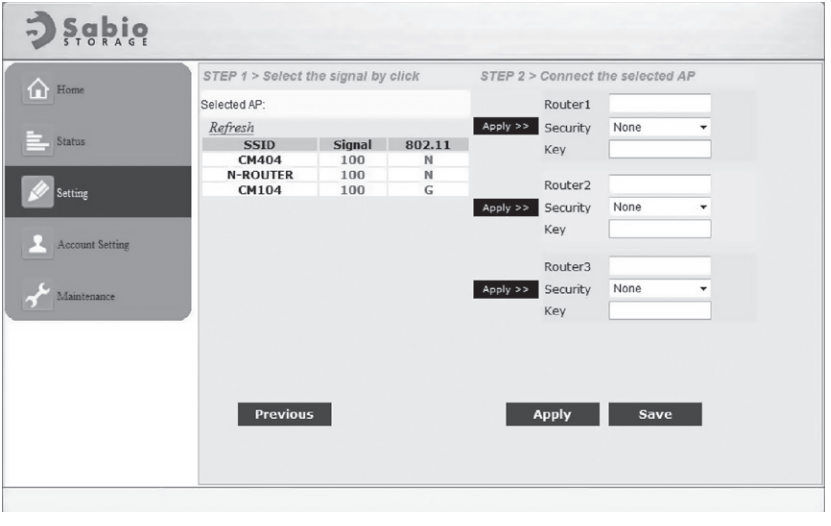

Sabio
STORAGE
Home
Status
Setting
Account Setting
Maintenance
STEP 1 > Select the signal by click
Selected AP:
Refresh
SSID
Signal
802.11
CM404
100
N
N-ROUTER
100
N
CM104
100
G
STEP 2 > Connect the selected AP
Apply >>
Router1
Security
None
Key
Router2
Apply >>
Security
None
Key
Router3
Apply >>
Security
None
Key
Previous
Apply
Save

figure-13

e. Click on the SSID of the wireless connection you wish to use, and then click on “Apply” in the “Step 2” section of the page. The SSID will appear in the top most slot. Select/ Enter the appropriate security settings to allow the CM1 to join the wireless network *(figure-14)*.

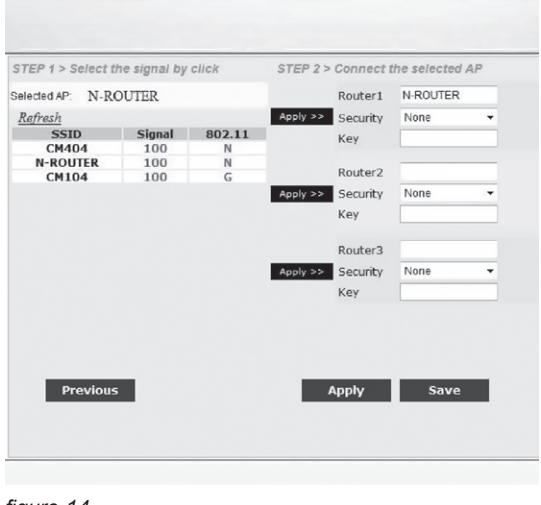


figure-14

f. Click “Apply” down at the bottom and you will see a warning dialog appear *(figure-15)*.

Once the setting is applied, the CM1 will re boot. Once the WiFi light stops flashing red and green, and turns all green, you can then power down the CM1, remove the Ethernet cable, and power it back up. You can now relocate your CM1 to your desired location and it will operate wirelessly as long as there is a strong signal.

Three Folders have been created on the CM1. These folders can be accessed us ing the web interface. Select “Web Fold er” *(figure-16)***.**

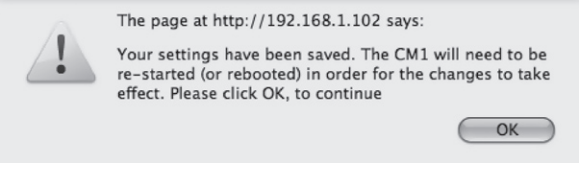

The page at http://192.168.1.102 says:
Your settings have been saved. The CM1 will need to be re-started (or rebooted) in order for the changes to take effect. Please click OK, to continue
OK

figure-15

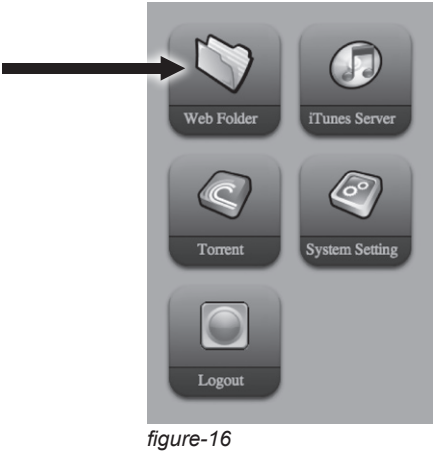


figure-16

The following screen should appear *(figure-17)*. **These three folders can be mapped to your computer.**

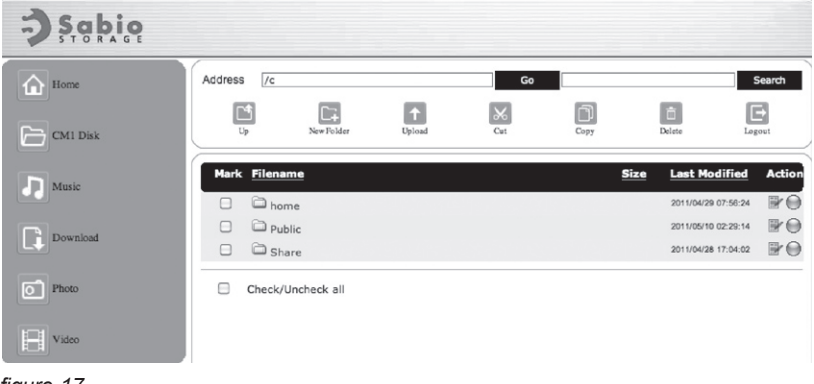


figure-17

On a Windows PC, launch the CM1 utility. After you log in to the CM1, click on the Web Folder button, and the following screen will appear *(figure-18)***.**

figure-18

Right clicking on any of the folders will allow you to map the drive as a local drive, *(figure-19)*. **After the drive is mapped, you can use these folders as you would a local drive directly connected to the your computer.**

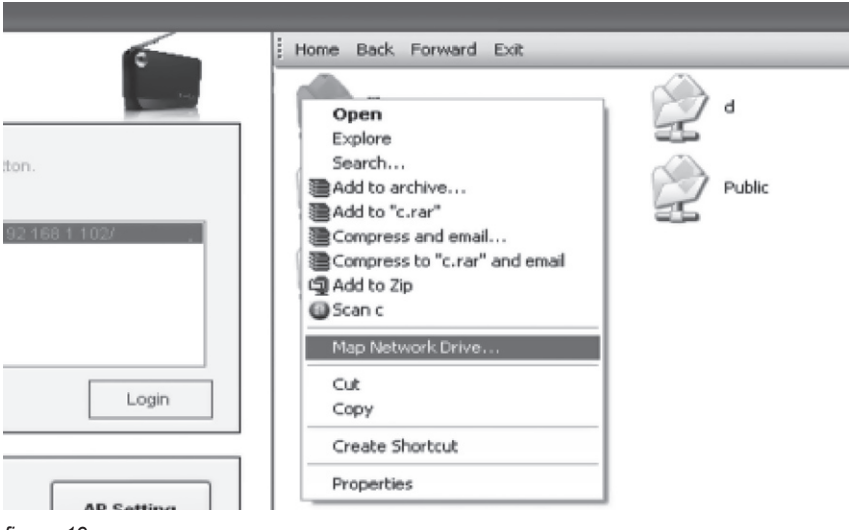


figure-19

On a Mac computer, in Finder use the “Command K” key combination to connect to the CM1, and enter the IP address of the CM1 or the product name “CM1” *(figure-20)*.

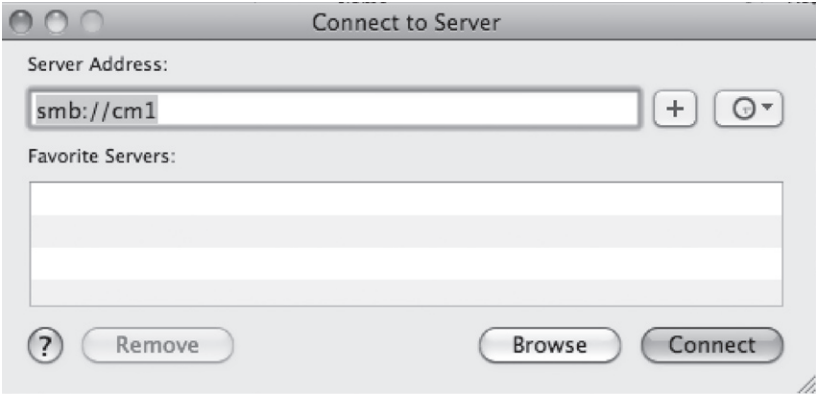


figure-20

This will ask you for a Name and password as a registered user. Enter “admin” and “admin” as your name and password *(figure-21)*.

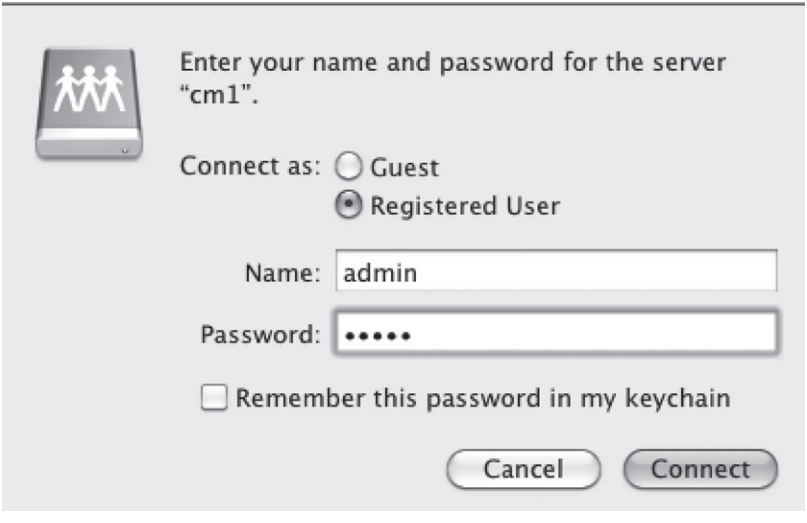


figure-21

Now the CM1 will appear in Finder as a network connected drive.

Use the Home folder for: Use of the Home folder is optional, but can be used to store personal documents you do not wish others to see.

Use the Public folder for: Use of the Public folder is optional, but can be used to store files you want everyone to have unrestricted access to.

Use the Share folder for: Use the Share folder for files you wish to share with others. This folder contains the Music, Download, Photo and Video folders. These folders can also be accessed from the menu bar on the left side.

Setting the iTunes server

Make sure the iTunes server is on in the status screen *(figure-22)*.

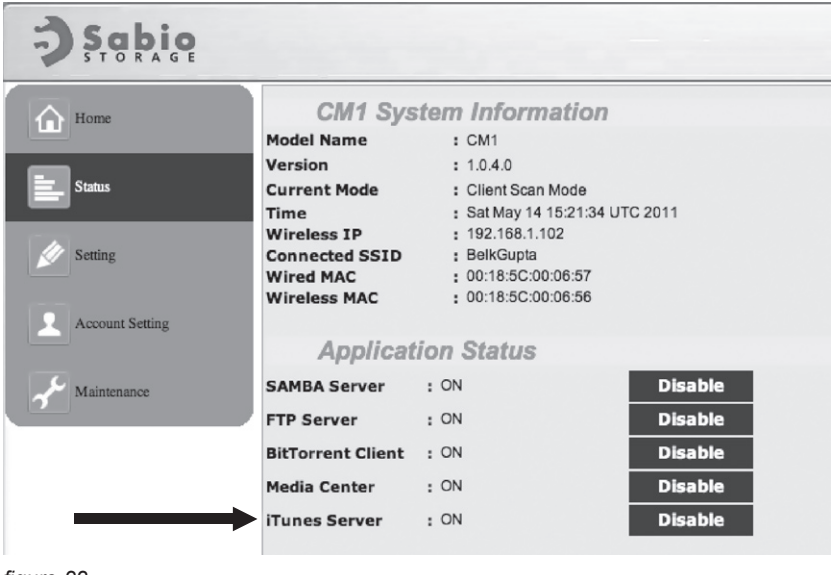


figure-22

Click on the iTunes button from the home screen, and make sure the default setting of “my Music” is selected *(figure-23)*.

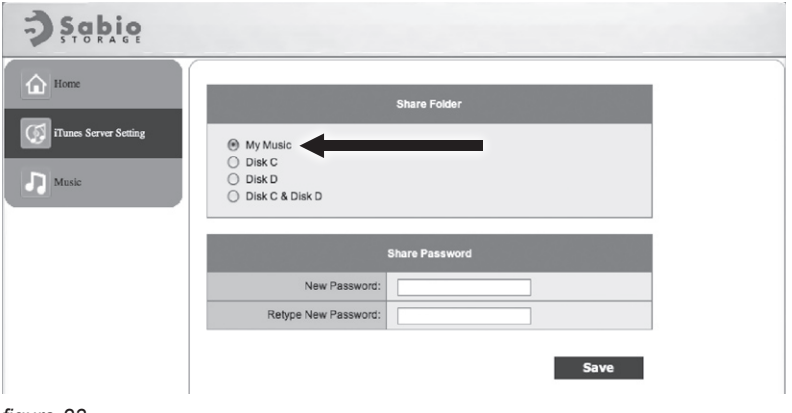


figure-23

This will allow computers on your network to see the CM1 as a music server, and music files on the CM1 will be available through iTunes. *(figure-24)*

NOTE: The music files must reside on the CM1 under the Share/Musicfolder in order for the iTunes service to pick them up.

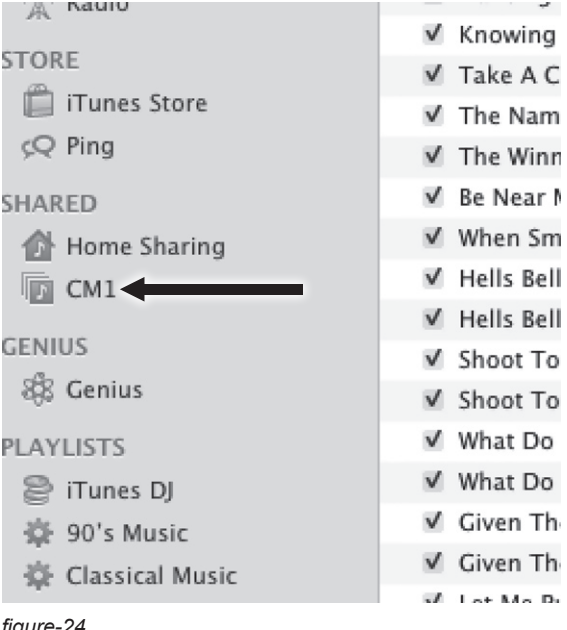


figure-24

Personal Cloud

Setting up the CM1 to allow for functionality as a Personal Cloud storage device. There are two elements to gaining access to your CM1 from outside your local network (home or office). One is configuration of the Router and the other is DDNS. Below each is described in brief summaries.

Personal Cloud/ Remote access/access from road.

You will need to register with just one of many Dynamic DNS service providers that are out there. Sabio Storage does not provide this service, and while there are some that charge you a monthly fee, many of them are free. Below are some free services that we have found:

- **DynDNS.com**
- **no-ip.com**
- **dnsexit.com**
- **TZO.com**

We will show you one as an example to show you how it works. Others are similar and offer similar services. Go to http://www.dyndns.com, using a web browser on a computer connected to the same local network as the CM1.

Click on the “Sign In” button in the upper right hand portion of the web page. A drop down box will appear and ask for your login information (user name and password). Enter them in, if you have already registered, but if you haven’t, you will need to click on the option below and “Create an account” *(figure-25)*.

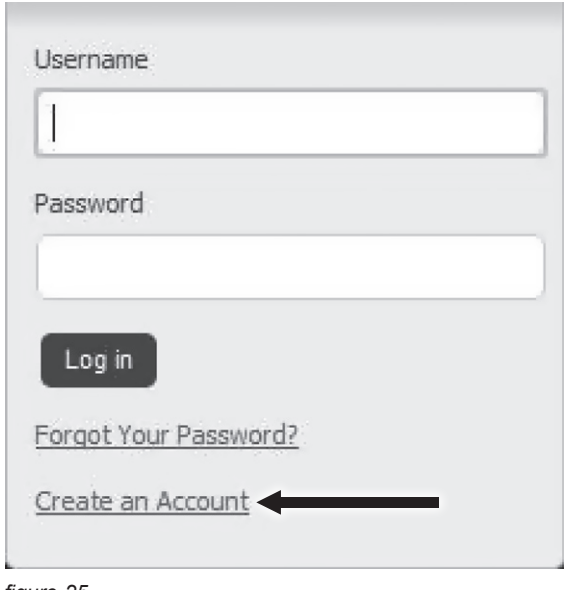


figure-25

You will then see the screen that will allow you to register for their DDNS services.

You can use anything as a user name, but it should be something you will remember, as you will be using this once in a while. The other items are self-explanatory. Click on the “Create Account” button *(figure-26)*.

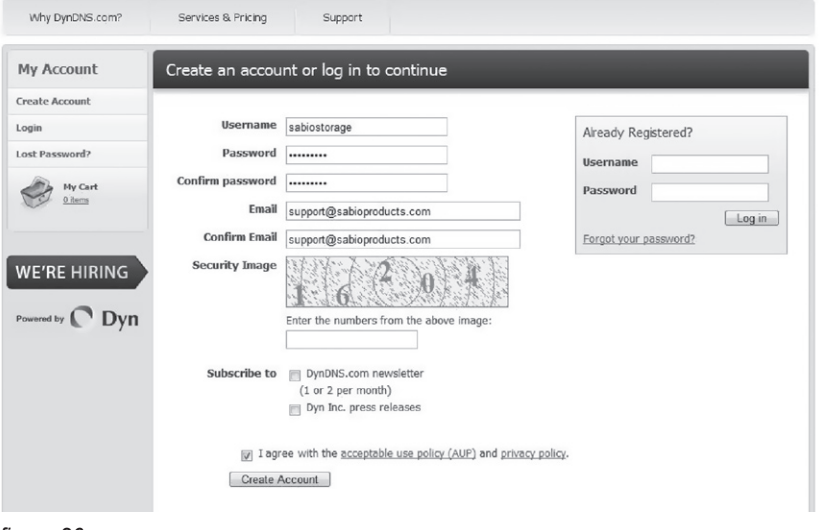

Why DynDNS.com?
Services & Pricing
Support
My Account
Create Account
Login
Lost Password?
My Cart
0 Items
WE'RE HIRING
Powered by Dyn
Create an account or log in to continue
Username
sabiostorage
Password
Confirm password
Email
support@sabioproducts.com
Confirm Email
support@sabioproducts.com
Security Image
Enter the numbers from the above image:
Subscribe to
DynDNS.com newsletter
(1 or 2 per month)
Dyn Inc. press releases
I agree with the acceptable use policy (AUP) and privacy policy.
Create Account
Already Registered?
Username
Password
Log in
Forgot your password?

figure-26

The next screen is an advisory screen telling you that they will be sending a confirmation Email to the address that you gave them during the registration. Make sure you follow the instructions in the Email carefully, as this will verify your account.

Once you have completed the confirmation Email go back to their site and sign in. Then click on “Add Host Services” *(figure-27)*.

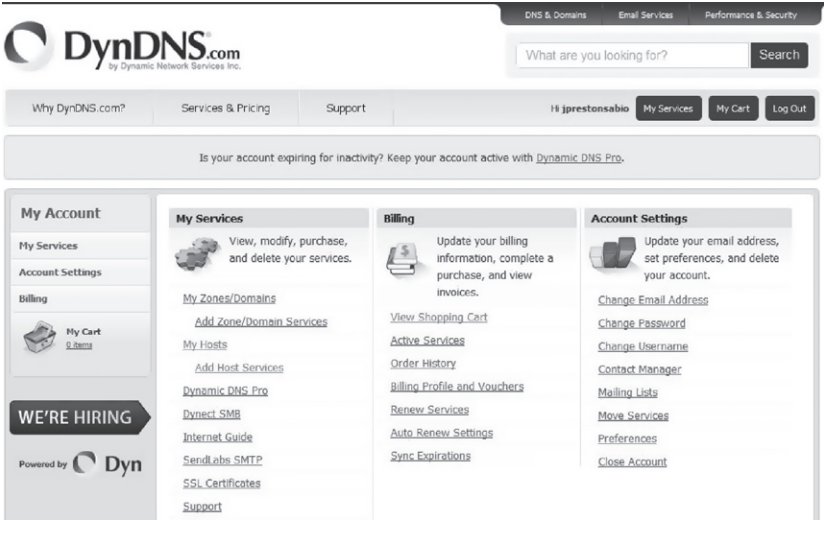

DynDNS.com
by Dynamic Network Services Inc.
DNS & Domains
Email Services
Performance & Security
What are you looking for?
Search
Why DynDNS.com?
Services & Pricing
Support
Hi jprestonsabio
My Services
My Cart
Log Out
Is your account expiring for inactivity? Keep your account active with Dynamic DNS Pro.
My Account
My Services
Account Settings
Billing
My Cart
0 items
WE'RE HIRING
Powered by Dyn
My Services
View, modify, purchase, and delete your services.
My Zones/Domains
Add Zone/Domain Services
My Hosts
Add Host Services
Dynamic DNS Pro
Dynect SMB
Internet Guide
SendLabs SMTP
SSL Certificates
Support
Billing
Update your billing information, complete a purchase, and view invoices.
View Shopping Cart
Active Services
Order History
Billing Profile and Vouchers
Renew Services
Auto Renew Settings
Sync Expirations
Account Settings
Update your email address, set preferences, and delete your account.
Change Email Address
Change Password
Change Username
Contact Manager
Mailing Lists
Move Services
Preferences
Close Account

figure-27

You will then see a screen *(figure-28)* and will be asked for some information about the new host-name you are going to create. This is the name that you will use to access your CM1 and its contents while you are out on the Internet, such as when you are traveling. The first item is the Hostname. This can be any name you wish, and will be the name that you type into your browser when you access your CM1 from outside your local network. For this example we are using the name “sabio”.

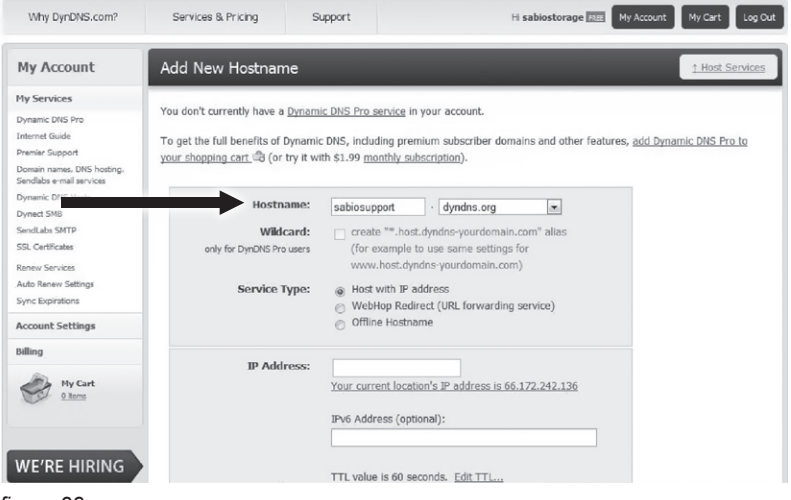

Why DynDNS.com?
Services & Pricing
Support
Hi sabiostorage
My Account
My Cart
Log Out
My Account
My Services
Dynamic DNS Pro
Internet Guide
Premier Support
Domain names, DNS hosting, Sendlabs e-mail services
Dynamic DNS
Dynect SMB
SendLabs SMTP
SSL Certificates
Renew Services
Auto Renew Settings
Sync Expirations
Account Settings
Billing
My Cart
0 items
WE'RE HIRING
Add New Hostname
↑ Host Services
You don't currently have a Dynamic DNS Pro service in your account.
To get the full benefits of Dynamic DNS, including premium subscriber domains and other features, add Dynamic DNS Pro to your shopping cart (or try it with $1.99 monthly subscription).
Hostname:
sabiosupport
dyndns.org
Wildcard:
only for DynDNS Pro users
create "*.host.dyndns-yourdomain.com" alias (for example to use same settings for www.host.dyndns-yourdomain.com)
Service Type:
Host with IP address
WebHop Redirect (URL forwarding service)
Offline Hostname
IP Address:
Your current location's IP address is 66.172.242.136
IPv6 Address (optional):
TTL value is 60 seconds. Edit TTL...

figure-28

The next step is to select the last two segments of the name you will be using. The free service that DynDNS.com offers allows you to select from a dozen or more possibilities. For the example we are using, we have selected “dyndns.info” *(figure-29)*.

You then will need to select the service type. Please make sure that “Host with IP address” is selected *(figure-27)*.

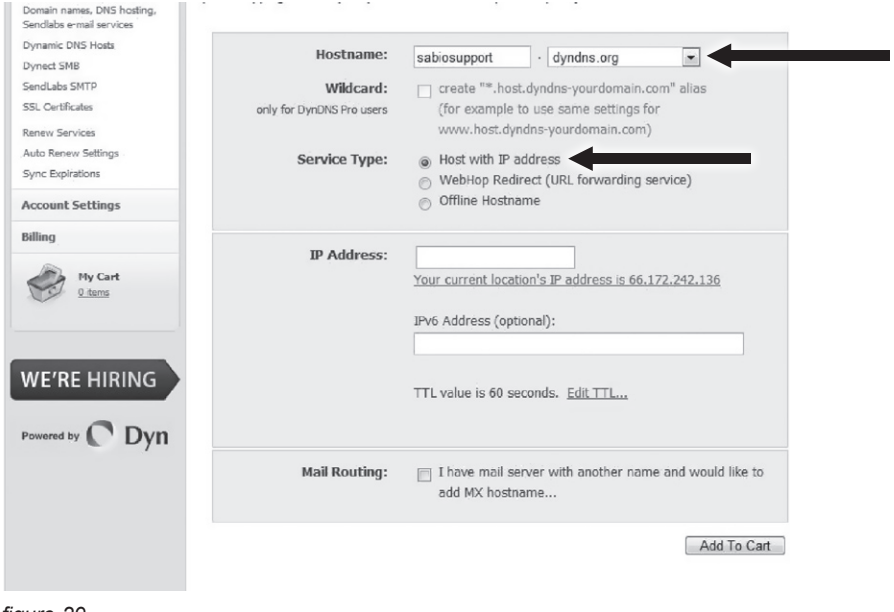

Domain names, DNS hosting, Sendlabs e-mail services
Dynamic DNS Hosts
Dynect SMB
SendLabs SMTP
SSL Certificates
Renew Services
Auto Renew Settings
Sync Expirations
Account Settings
Billing
My Cart
0 items
WE'RE HIRING
Powered by Dyn
Hostname:
sabiosupport
dyndns.org
Wildcard:
only for DynDNS Pro users
create "*.host.dyndns-yourdomain.com" alias (for example to use same settings for www.host.dyndns-yourdomain.com)
Service Type:
Host with IP address
WebHop Redirect (URL forwarding service)
Offline Hostname
IP Address:
Your current location's IP address is 66.172.242.136
IPv6 Address (optional):
TTL value is 60 seconds. Edit TTL...
Mail Routing:
I have mail server with another name and would like to add MX hostname...
Add To Cart

figure-29

Once that is done, you will need to type in the IP address where your CM1 can be located. This is **NOT** the IP address of the CM1 itself, as this is most often a private IP address. This is the address of your cable modem or DSL modem. For your benefit, the folks at DynDNS.com have conveniently provided the public IP address of your network just below the entry blank *(figure-30)*.

If you are filling this information out while you are on the same network that the CM1 is attached to, then this address will be correct, and you can just click on this link and the number will be filled in for you.

If you are filling this form out while you are on a different network, then this number will NOT be correct and you will need to open a browser on a computer attached to the same network as the CM1 and go to the site www.whatismyip.com. This will tell you the IP address that you will need for this part of the form.

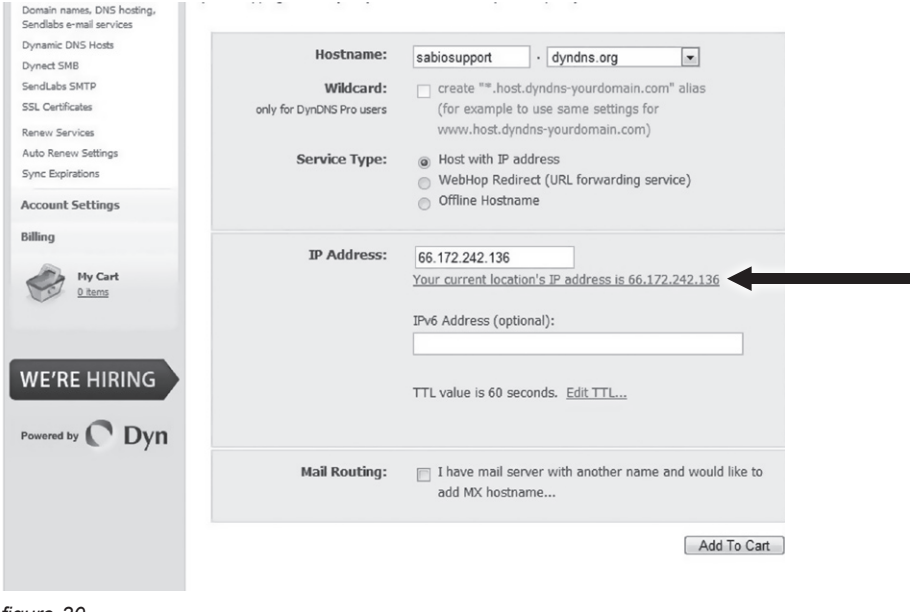

Domain names, DNS hosting, Sendlabs e-mail services
Dynamic DNS Hosts
Dynect SMB
SendLabs SMTP
SSL Certificates
Renew Services
Auto Renew Settings
Sync Expirations
Account Settings
Billing
My Cart
0 items
WE'RE HIRING
Powered by Dyn
Hostname:
sabiosupport
dyndns.org
Wildcard:
only for DynDNS Pro users
create "*.host.dyndns-yourdomain.com" alias (for example to use same settings for www.host.dyndns-yourdomain.com)
Service Type:
Host with IP address
WebHop Redirect (URL forwarding service)
Offline Hostname
IP Address:
66.172.242.136
Your current location's IP address is 66.172.242.136
IPv6 Address (optional):
TTL value is 60 seconds. Edit TTL...
Mail Routing:
I have mail server with another name and would like to add MX hostname...
Add To Cart

figure-30

The next item on the page has to do with Mail Routing, and you will want to leave this unchecked. The next part of the setup for your new hostname is basically telling the folks at DynDNS.com what you intend to use the new hostname for. You do not have to volunteer this information, but it may help them improve their services. You can use the suggested options, or leave this area without any selections *(figure-31)*.

Then you will click on the “Add to Cart” button at the bottom. The next screen is a confirmation screen to the checkout procedure in creating your new hostname. You will notice there is no charge for the services you have selected. Click on the “Proceed to Checkout” button *(figure-32)*.

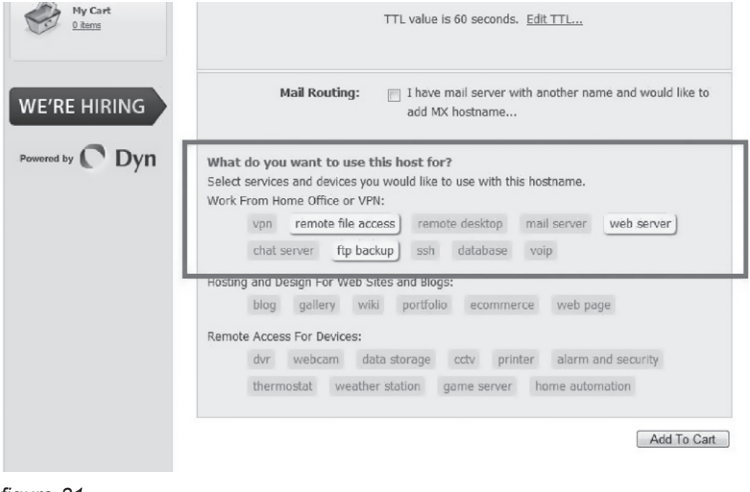

My Cart
0 items
WE'RE HIRING
Powered by Dyn
TTL value is 60 seconds. Edit TTL...
Mail Routing:
I have mail server with another name and would like to add MX hostname...
What do you want to use this host for?
Select services and devices you would like to use with this hostname.
Work From Home Office or VPN:
vpn
remote file access
remote desktop
mail server
web server
chat server
ftp backup
ssh
database
voip
Hosting and Design For Web Sites and Blogs:
blog
gallery
wiki
portfolio
ecommerce
web page
Remote Access For Devices:
dvr
webcam
data storage
cctv
printer
alarm and security
thermostat
weather station
game server
home automation
Add To Cart

figure-31

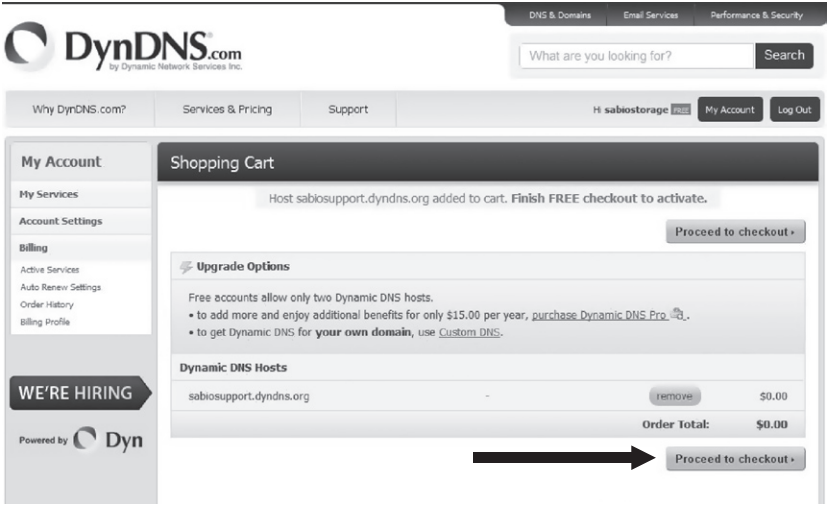

DynDNS.com
by Dynamic Network Services Inc.
DNS & Domains
Email Services
Performance & Security
What are you looking for?
Search
Why DynDNS.com?
Services & Pricing
Support
Hi sabiostorage
My Account
Log Out
My Account
My Services
Account Settings
Billing
Active Services
Auto Renew Settings
Order History
Billing Profile
WE'RE HIRING
Powered by Dyn
Shopping Cart
Host sabiosupport.dyndns.org added to cart. Finish FREE checkout to activate.
Proceed to checkout
Upgrade Options
Free accounts allow only two Dynamic DNS hosts.
• to add more and enjoy additional benefits for only $15.00 per year, purchase Dynamic DNS Pro.
• to get Dynamic DNS for your own domain, use Custom DNS.
Dynamic DNS Hosts
sabiosupport.dyndns.org
remove
$0.00
Order Total:
$0.00
Proceed to checkout

figure-32

The next screen shows you the new hostname you are about to activate. Please click on the “Activate Services” button to continue *(figure-33)*.

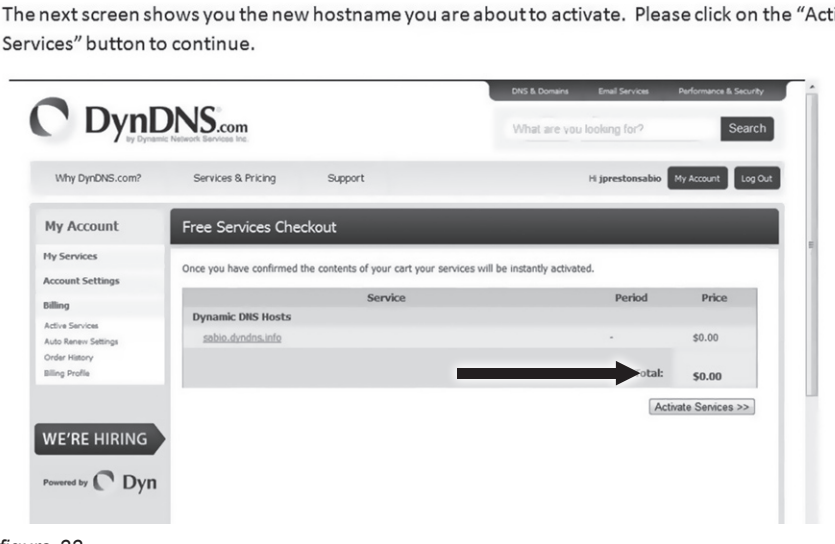


figure-33

You will then see the next screen showing your new hostname that you can utilize to access your CM1, from your PC, tablet, or web enabled phone, wherever you are on the Internet *(figure-34)*.

Now, even if the address of your home network changes, which can be the case with many Internet Service Providers, the name you have created, along with the services, will compensate for the changes, if and when they occur.

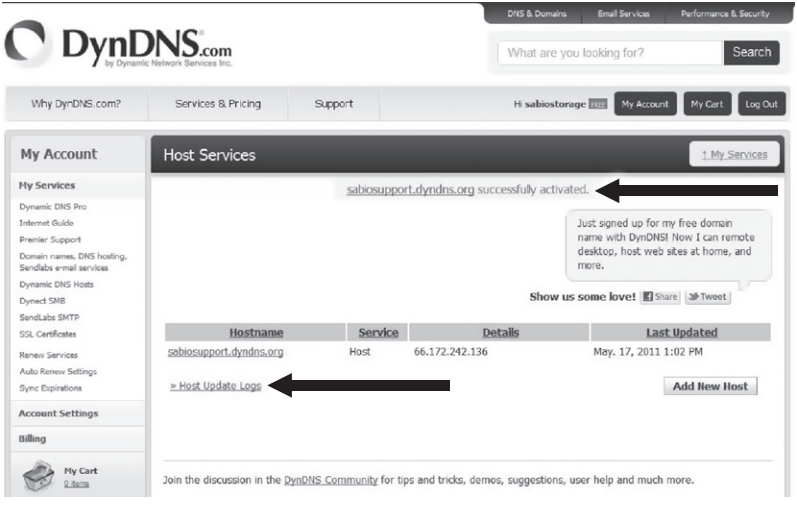

DynDNS.com
by Dynamic Network Services Inc.
DNS & Domains
Email Services
Performance & Security
What are you looking for?
Search
Why DynDNS.com?
Services & Pricing
Support
Hi sabiostorage
My Account
My Cart
Log Out
My Account
My Services
Dynamic DNS Pro
Internet Guide
Premier Support
Domain names, DNS hosting, Sendlabs e-mail services
Dynamic DNS Hosts
Dynect SMB
SendLabs SMTP
SSL Certificates
Renew Services
Auto Renew Settings
Sync Expirations
Account Settings
Billing
My Cart
0 Items
Host Services
My Services
sabiosupport.dyndns.org successfully activated.
Just signed up for my free domain name with DynDNS! Now I can remote desktop, host web sites at home, and more.
Show us some love!
Share
Tweet
Hostname
Service
Details
Last Updated
sabiosupport.dyndns.org
Host
66.172.242.136
May. 17, 2011 1:02 PM
» Host Update Logs
Add New Host
Join the discussion in the DynDNS Community for tips and tricks, demos, suggestions, user help and much more.

figure-34

Router (Port Forwarding) configuration.

This phase of the setup for your personal cloud requires a Wireless Router with UPnP enabled. If your router is UPnP enabled, then the configuration of the router for port forwarding will take place automatically. This will allow your router to provide access to the CM1 from the Internet.

If you do not know whether you have Universal Plug and Play features on your router, please check the manufacturer's web site. For instructions on how to enable this feature, if it is not enabled by default, please refer to the instructions that came with your router. As an example, the port forwarding screen on a LInksys router should look like *figure-35* (every router has similar screen and functionality).

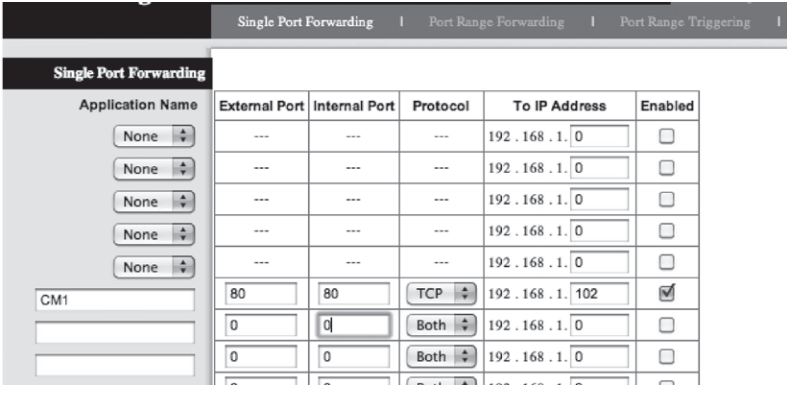

Single Port Forwarding | Port Range Forwarding | Port Range Triggering |
Single Port Forwarding
Application Name
External Port
Internal Port
Protocol
To IP Address
Enabled
None
---
192 . 168 . 1.
0
CM1
80
TCP
102
Both

figure-35

You are almost done, one last setting. Log back into the CM1. Please click on the “Account Setting” button on the left side of the page.

When you arrive at the “Account Settings” page, click on the “DDNS” tab in the upper right section of the page *(figure-36)*.

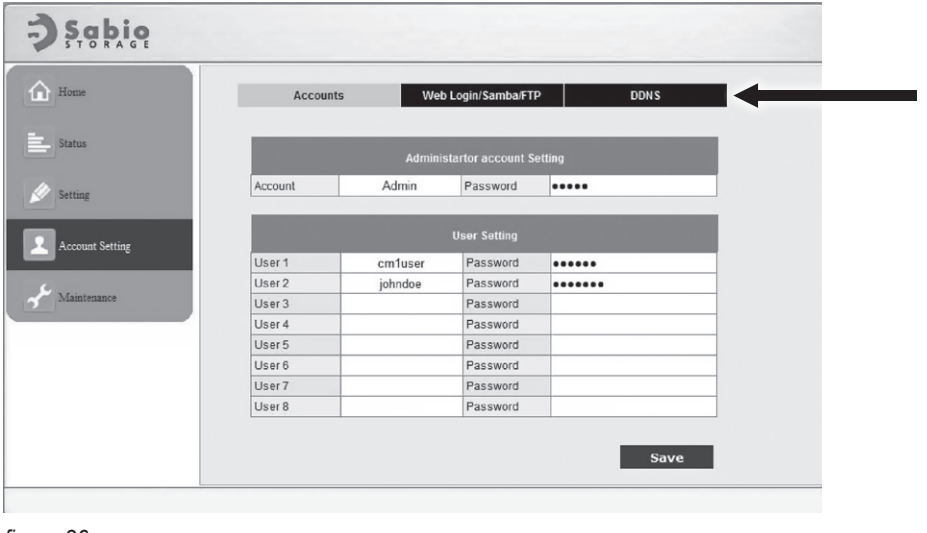

Sabio
STORAGE
Home
Status
Setting
Account Setting
Maintenance
Accounts
Web Login/Samba/FTP
DDNS
Administartor account Setting
Account
Admin
Password
User Setting
User 1
cm1user
User 2
johndoe
User 3
User 4
User 5
User 6
User 7
User 8
Save

figure-36

You will then see the “DDNS Settings” page. Please fill in the information from the DynDNS.com site that you created, including the hostname, login information, and the port number you wish to use. In most cases, the default port of 80 is used *(figure-37)*.

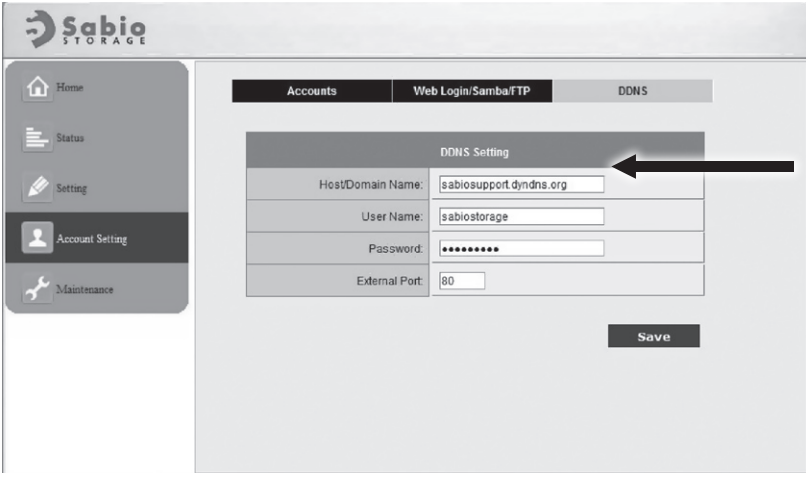


figure-37

Then click on “Save”. Please reboot the CM1 using the reboot option on the “Maintenance” page. This completes the setup for your personal cloud – enjoy. Please refer to our web site for some examples on how to use your CM1.

Please bookmark the host/domain name that you created in your browser. In our example it is: http://sabiosupport.dyndns.org/

Clicking on this address from anywhere on the internet should take you to the log in screen for your CM1 at home or office *(figure-38)*.

When you log in, you should have complete access to the CM1, including downloading and uploading files, creating new folders,….etc.

figure-38